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The attached documents are true copies of the Form P2, P1, P6 and a Provisional Specification of a South African Patent application No. 2004/01033

In the name of: VISS

VISSER JAN WILLEM

Date

9th February 2004

Entitled

PRIMARY CONTAINER FOR A SECURITY SYSTEM

Geteken'te

in die Republik van Suid-Afrika, hierdie

dag van

PRETORIA

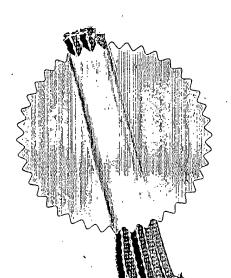
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Signed at

in the Republic of South Africa, this

JANUARY 2007

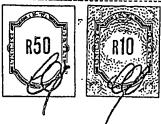
Registrateur van Patente Registrar of Patents



REPUBLIC OF SOUTH AFRICA PATENTS ACT, 1978

APPLICATION FOR A PATENT AND ACKNOWLEDGEMENT OF RECEIPT

(IN DUPLICATE) Form P1



HINE IMPRESSION

E STAMP

The grant of a patent is hereby requested by the undermentioned applicant on the basis of the present application filed in duplicate	09-Feb-2004
21 01 OFFICIAL APPLICATION NO. 0 4 / 1 0 3 3	LF & Co. Ref: ZA.P.2294
VISSER, JAN WILLEM	
5 Elray Ave., Dunvegan, Edenvale, 1609, South	
PRIMARY CONTAINER FOR A SECURITY SY	
Priority is claimed as set out on Form P2. Earliest Priority claimed is:	Country Number Date
This application if for a Patent Of Addition to patent application No.:	21 1 01
This application is a fresh application in terms of Section 37 based on appl	
THIS APPLICATION IS ACCOMPANIED BY: X 1s 1b Two copies of a complete specification, Number of pages Two copies of a complete specification, Number of pages Two copies of a complete specification, Number of pages Two copies of a complete specification, Number of pages Publication particulars and abstract (Form P8 in duplicate) Two copies of the drawing for the abstract Figure No	7 2 formal / informal
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8 An assignment of priority rights	
9 A copy of Form P2 and specification of ZA Patent Application No/s	21 01 ,
10 A declaration and power of attorney on Form P3	
11 Request for ante-dating on Form P4	
12 Request for Delay of Acceptance on Form P4	
X 13 Form P2 plus copy	
74 Address for Service: LES FISHER & CO. Johannesburg	Docex DX 438 Jhb Box 3/1864 Bramley 2018
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DATE 09-Feb-2004

LES FISHER &CO.
APPLICANTS AGENTS

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REGISTER OF PATENTS

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Assignee(s):					
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Full name(s) of inventor(s): VISSER, Jan Willem		•			
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Address of applicant(s)/palentee(s): 5 Elray Ave., Qunvegan, Edenvale,	1609	, South Africa			·
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2004/01033	09-Feb-2004	ZA.P.2294
71 APPLICANT/9 (Full Name/s)	<u> </u>	
VISSER, JAN WILLEM		
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72 INVENTORIS (Full Name/s)		 · •——————
VISSER, Jan Willem	<i>:</i>	
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54 TITLE OF INVENTION		 *
PRIMARY CONTAINER FOR		

PRIMARY CONTAINER FOR A SECURITY SYSTEM

TECHNICAL FIELD:

This invention relates to a primary container for a security system to store and transport valuable articles, particularly though not exclusively, currency and other bearer documents.

BACKGROUND ART:

It is well known to store and transport valuable articles, such as documents, minerals, currency, examination papers and the like, in a tamper evident, sealable plastics bag or primary container. Typically, the primary container is of an appropriate polyolefin that has desired characteristics and that bonds firmly with a strip of suitable adhesive. It is also known to protect a primary container, of any type, further by placing it in a secondary container that, depending on the nature of the articles being secured, has devices that can be activated to stain/damage the articles as well as indicate compromised security, such as visual/audible alarm signals and wireless tracking signals. The staining or damaging medium may be a powder, liquid, solld, gas or heat. Secondary containers are expensive and thus mostly used only to secure primary containers temporarily between collection and deposit points, such as a business and a courier vehicle.

The terms "stain" and "staining" as used herein refers to damaging, staining, marking, defacing and the like functions to render valuable articles, particularly currency and bearer documents, untradable. While tamper evident plastics primary containers provide acceptable protection against tempering, they are not suited for staining because the polyolefin is impregnable to known staining media. Secondary containers thus usually rely on a combination of heat to shrink or burn holes in the primary containers and followed by staining. Although such systems have been used internationally for many years, it is known that their effectiveness is variable. Significantly, the heat source is potentially dangerous at all times - fatalities and fires have been reported - and when used destroys the expensive secondary container.

Thus this invention seeks to provide a primary container for use within secondary containers and with staining systems that ensures acceptable staining of currency in a manner that resolves the inadequacies of the known systems mentioned above in a reasonably satisfactory manner.

DISCLOSURE OF THE INVENTION:

One aspect of the invention provides a method of securing valuable articles within a tamper evident primary container, including the steps of:

- -- partitioning the primary container into first and second portions that communicate with each other through at least one path arranged to prevent undetectable access to the first portion through the second portion;
- -- inserting articles to be secured into the first portion and sealing at least that portion; and
- selectively emitting a staining medium into the second portion from where it can flow into the first portion through the path.

Another aspect of the invention provides a primary container for articles to be secured comprising:

- 20 -- an envelope of tamper evident plastics material;
 - --- means partitioning the envelope into first and second portions that communicate with each other through at least one path;
 - -- a first opening in the envelope through which articles can be inserted into the first portion;
- 25 -- means for sealing the first opening; and
 - -- a second opening into the second portion through which a staining medium can be introduced into the second portion when desired.

The path is constructed and arranged so as to prevent or inhibit access to the first portion through the second portion or to ensure that such access is detectable.

Preferably the envelope is substantially rectangular, the first opening extends substantially parallel to one pair of opposed edges and the partitioning means extends substantially parallel to the other pair of opposed edges. Other shapes may also be used, such as round, oval, square and the like

Preferably the partitioning means extends substantially from one of the edges to the opposite edge.

Preferably, a plurality of spaced apart paths are formed through the partitioning means between the first and second portions. This facilitates the flow of staining medium between the portions.

In one form of the invention the paths are formed by an intermittent seam line, formed by welding, stitching, bonding and the like. The breaks in the seam form openings or flow paths. The openings may be sufficiently small and of substantially similar size, such as 2 to 20 mm, preferably between 2 and 10 mm, in order to inhibit inserting implements through them to snag and roll currency and then withdraw it through the openings. Alternatively, the openings may increase in size in a direction away from the opening to the second portion - again this is to ensure maximum flow of staining medium between the second and first portions. It is envisioned that such openings can range in size from 2 to 50 mm, though 2 to 20 mm is preferred. For this reason, preferably the partitioning means is , substantially continuous from the edge adjacent the second opening for a 20 desired length and then is formed with the spaced openings to form the spaced apart paths. This arrangement, when properly configured having regard to the size of the slit in the second portion, the width of the second portion and the dimension of the openings, ensures that attempts to insert probes into the first portion through the slit and second portion results in tamper evident stressing of the plastics sheet material.

In another form of the invention the paths are formed by an intermittent seam line, with the portions of the seam substantially overlapping one another and providing tortuous flow paths between the first and second portions. The seam portions may be straight, curved, sinuous as desired.

The partitioning means may be formed by intermittently fusing the sides of the envelope by means of heat (i.e. welding), or by adhesive bonding, or mechanically, such as by stitching.

The primary container is preferably used with a dispensing apparatus that has a store of staining medium, means to pressurise the staining medium, and means to convey pressurized staining medium into the second portion.

The conveying means may be a tube that is insertable into the second page 4

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portion or an outlet that can be arranged to direct staining medium into the second portion.

The staining apparatus may be as disclosed in South African patent Nos. 1999/0122 and 2000/0189, which are to be regarded as being incorporated herein by this reference.

This invention allows for the release of staining medium into the primary container without affecting the integrity of the material from which the primary container is made, i.e. it does not diminish the tamper evident security features of the primary container. The positioning of the path is designed to frustrate the various methods employed by criminals to penetrate the package, such as tweezers, hooks, wires and the like implements insertable into the first portion to snag currency and documents and withdraw them through the path.

Further features, variants and/or advantages of the invention will emerge from the following non-limiting description of examples of the invention made with reference to the accompanying schematic drawing.

BRIEF DESCRIPTION OF THE DRAWINGS:

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regure 1 shows a partly broken away, schematic side view of a primary container of the invention and means to inject staining medium into the container when desired; and

25 Figure 2 shows another variant of the primary container of the invention.

DESCRIPTION OF ILLUSTRATED EMBODIMENTS:

Figure 1 shows a primary container 10 to store and transport valuable articles as mentioned above and a stain dispensing apparatus 12 for introducing a suitable staining medium into the primary container when required.

The primary container 10 comprises a rectangular polyolefin envelope 14 with parallel side edges 16, a top edge 18 and a bottom edge 20. A primary opening 22 is formed near the top edge, the opening being constituted by a flap 24 extending from the top edge over the upper edge 26 of a side of the envelope. A strip of adhesive 28 is provided to seal the opening. The envelope is partitioned into a first or valuables portion 30 and a second or stain dispensing portion 32 by a heat welded seam 34. The seam extends page 5

effectively between the top and the bottom edges. The seam has a continuous portion 34.1 and an intermittent portion 34.2 formed with spaced openings. A slit 36 is formed into the staining portion of the envelope adjacent the top edge.

The length of the continuous portion and the width of the holes is designed to prevent documents, such as bank notes, from being rolled and withdrawn through the openings and slit. The holes are between about 2 and 4 mm wide, though they may range from about 2 mm adjacent the opening 36 to about 10 mm away from the opening so as to facilitate flow of staining medium between the first and second portions.

The stain dispensing apparatus 12 comprises a store 40 of staining medium, eg. a liquid, under pressure, means to release the staining medium, eg. an ignitable charge, a valve or a trigger, and a tube 42 extending from the store to deliver staining medium to the second portion of the envelope.

The apparatus is used in practice to transport currency by a courier from a business. The currency is loaded into and sealed in the primary container by the business. The primary container is placed in the secondary container and the free end of the tube 42 is inserted into the staining portion 32 at this stage. The secondary container is then carried to a depository, such as a courier van or bank where it is opened and the primary container removed so that the secondary container can be used for the next primary container. At the final destination the primary containers are delivered to a counting department. The primary containers are then opened by slitting them with a knife along a marked designated line 38, so that, if needed, the primary container can be examined for evidence of tampering to determine liability for any shortfall. Any attempt by the courier to extract notes from the envelope would be evident. The continuous portion of the seam 34 is thus made sufficiently long to ensure such attempts will stress the slit or the seam.

In the event of an attempt to steal the secondary container, then the dispensing apparatus can be activated by suitable mechanical, motion sensitive, remotely actuatable and the like switches. Activation of any of the switches cause the store to release staining liquid into the second portion of the envelope and then through the paths in the seam into the first portion.

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The system described above will enable secondary containers that have been activated to be cleaned and re-used with a fresh dispensing means - this is in contrast to heat systems where the secondary container becomes unusable once it has been activated. The primary container described above thus enables effective use of suitable or desired staining media without the use of heat. Secondary containers using such primary containers can now be cleaned and re-used.

Figure 2 shows a variant 10.1 of primary container of the invention in which the same or similar parts have the same reference numbers. In this example an opening or slit 36.1 into the second portion extends parallel to one of the side edges. The first and second portions are separated by an intermittent seam 50 composed of S-shaped stitches 50.1 that overlap one another and form tortuous paths between the first and second portions. The first portion cannot be accessed through the opening 36.1 and the second portion without leaving evidence of tampering. The tortuous paths effectively enable free flow of staining medium between the first and second portions. The seam 50 extends from the adhesive 28 to the bottom edge, so that the opening to the first portion is effectively unrestricted.

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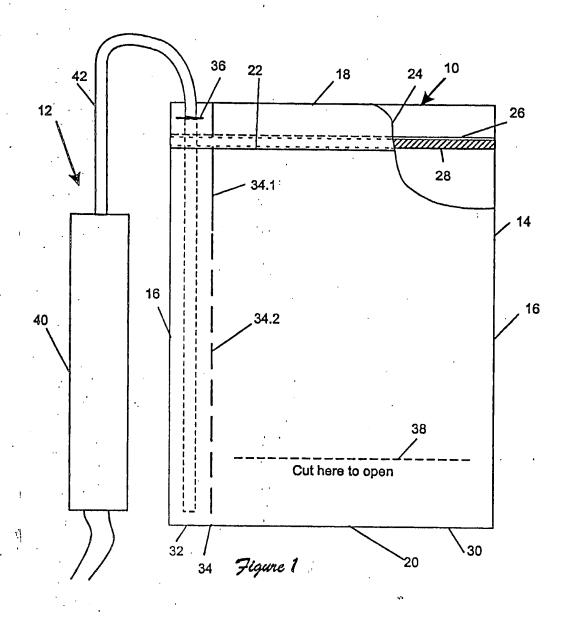
The invention is not limited to the precise details described above and shown in the drawings. Modifications may be made and other embodiments developed without departing from the spirit of the invention. For example, the primary container can be manufactured in a variety of colours and colour combinations as well as uncoloured, see-through materials and in different shapes. The surfaces of the primary container can be decorated/marked as desired. This invention is not restricted to any particular method of bag manufacturing or use of any particular stain dispensing apparatus or secondary container.

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DATE 9 February 2004

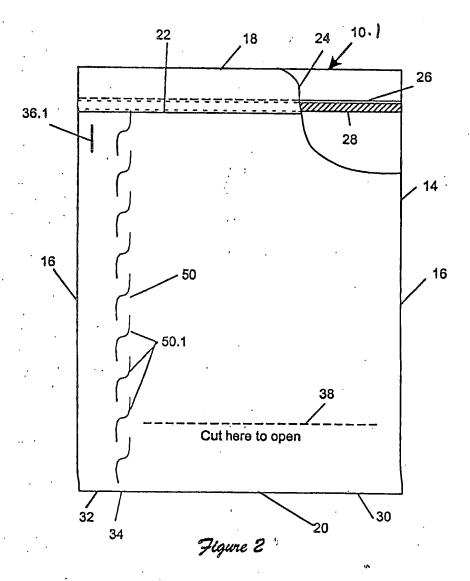
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